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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/838,463	04/19/2001	Wadood Hamad	IP-6084	2092	
23566 7594 OCTD A GED C	0 12/30/2002 CHONG & FLAHERT	EXAMINER			
825 THIRD AVI 30TH FLOOR		ALVO, MARC S			
NEW YORK, N	Y 10022-7519	ART UNIT	PAPER NUMBER		
			1731 DATE MAILED: 12/30/2002	8	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application N	lo.		Applicant(s)				
	09/838,463			HAMAD ET AL.					
Office Action Summary		Examiner			Art Unit				
		Steve Alvo			1731				
	The MAILING DATE of this communication ap	pears on the co	ver s	sheet with the c	orrespondence ac	ddress			
Period fo		VIO OFT TO F	יסטי	DE 2 MONTH/	S) EROM				
THE I - Exter after - If the - If NO - Failu - Any r	DRTENED STATUTORY PERIOD FOR REPL MAILING DATE OF THIS COMMUNICATION. Issions of time may be available under the provisions of 37 CFR 1. SIX (6) MONTHS from the mailing date of this communication. Period for reply specified above is less than thirty (30) days, a rep period for reply is specified above, the maximum statutory period re to reply within the set or extended period for reply will, by statute eply received by the Office later than three months after the mailing department of the provided provided period for reply will, by statuted patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, holy within the statutory	minimore St.	er, may a reply be tim num of thirty (30) days IX (6) MONTHS from become ABANDONEI	ely filed s will be considered time the mailing date of this o (35 U.S.C. § 133).	ely. communication.			
Status									
1)⊠	Responsive to communication(s) filed on 22								
2a)⊠	,	his action is no				le constanta			
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. Disposition of Claims									
	Claim(s) <u>10-24</u> is/are pending in the applicati	ion							
	4a) Of the above claim(s) is/are withdra		dera	tion.					
5)	Claim(s) is/are allowed.								
,	5)								
	7)⊠ Claim(s) <u>16 and 24</u> is/are objected to.								
	Claim(s) are subject to restriction and/	or election requ	ıiren	nent.					
	on Papers	•							
9)	The specification is objected to by the Examin	er.							
10)	The drawing(s) filed on is/are: a)□ acce	epted or b) obj	jecte	d to by the Exa	miner.				
	Applicant may not request that any objection to the	he drawing(s) be	held	l in abeyance. S	ee 37 CFR 1.85(a)				
11)	The proposed drawing correction filed on	is: a)∐ appr	oved	d b)⊡ disappro	ved by the Exami	ner.			
If approved, corrected drawings are required in reply to this Office action.									
12) The oath or declaration is objected to by the Examiner.									
Priority (ınder 35 U.S.C. §§ 119 and 120								
13)	13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).								
a)	a) ☐ All b) ☐ Some * c) ☐ None of:								
	1. Certified copies of the priority documents have been received.								
	2. Certified copies of the priority documents have been received in Application No								
* (3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.								
14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).									
а) \square The translation of the foreign language p	rovisional applic	catio	n has been rec	eived.	,,			
	Acknowledgment is made of a claim for domes	suc priority and	31 JC	J U.U.U. 33 121	, and/or (2).				
Attachmen	τ(s) se of References Cited (PTO-892)	4)		Interview Summan	y (PTO-413) Paper N	o(s).			
2) 🔲 Notic	e of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449) Paper No(s)	5)			Patent Application (P				

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The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 10, 11, 13-15, 17, 19, 20 and 23 are rejected under 35 U.S.C. 103(a) as obvious over CHASE '403 in view of SETH et al (1975 article) or SETH et al (1993 article) or SETH.

CHASE '403 teaches using empirical methods and techniques of regression analyses to determine functional relationships between material properties and the strength of the paper for a grade of paper (column 14, lines 29-34). SETH et al (1975 article) or SETH et al (1993 article) or SETH teaches that fractional toughness measurements can be used to determine the strength of paper. It would have been obvious that the regression analyses to determine functional relationships between material properties of CHASE '403 could be related the fracture toughness of SETH et al (1975 article) or SETH ET AL (1993 article) or SETH as the fracture toughness is a measure of the paper strength. See Figure 1 of CHASE '403 for using caliper, basis weight, moisture (humidity), additives (column 9, line 35) and softwood ratio as the variables of CHASE '403. See CHASE '403 for monitoring the variables after a grade is identified and then providing output signals to control the strength or the fracture toughness of SETH et al (1975 article) or SETH ET AL (1993 article) or SETH.

Claims 12, 16, 18, 21 and 24 are rejected under 35 U.S.C. 103(a) as being unpatentable over CHASE '403 in view of SETH et al (1975 article) or SETH ET AL (1993 article) or SETH as applied to claim 10 above, and further in view of HART.

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HART teaches automatic control of a paper machine and teaches using many if the same measurements used by CHASE '403, e.g. basis weight, caliper, moisture, and additives (82), (83) and (84) including filler (alum). It would have been obvious to the routineer that alum (filler) could have been one of the additives measured by CHASE '403 in the manner taught by HART.

Claim 22 is rejected under 35 U.S.C. 103(a) as being unpatentable over CHASE '403 in view of SETH et al (1975 article) or SETH ET AL (1993 article) or SETH as applied to claim 10 above, and further in view of PAGE et al.

CHASE '403 teaches controlling the strength during newsprint production (column 15, lines 42-57.PAGE et al teaches that the fracture resistance for different grades can be measured and used to determine which grade (product) is less likely to break during printing. This would represent the best strength for the grade to be to prevent breaks in the pressroom. It would have been obvious to control the variables of CHASE '403 to obtain the strength to prevent breaks as determined by PAGE et al

The argument that AHRENS is not combinable with CHASE '403 as AHRENS is drawn to a brittle material is moot as newly applied of SETH et al (1975 article) or SETH ET AL (1993 article) or SETH are all drawn to paper which is the same material as CHASE '403.

The argument that CHASE '403 does not measure fracture toughness is not convincing as CHASE '403 measures paper strength. The fracture toughness is directly related to the paper strength, as it is a measure of the force needed to rupture the paper. It would have been obvious to use the paper fracture toughness of SETH et al (1975 article)

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or SETH ET AL (1993 article) or SETH for the paper strength measurements of CHASE '403.

The argument that the art does not teach the specific equations of claims 16 and 24 is not convincing as these are routine calculations of the functional relationships of the measured values and would have been obvious to an engineer given the teachings of CHASE '403 and of SETH et al (1975 article) or SETH ET AL (1993 article) or SETH.

The argument that CHASE '403 does not teach measuring the alum and controlling the paper fracture toughness based on the alum measurement is not convincing, as the claims are not so limiting. The claims merely call for the filler to be measured and the paper machine controlled from the filler measurement. Such measurement and control is taught by HART. When filing an "Official" FAX in Group 1730, please indicate in the Header (upper right) "Official" for papers that are to be entered into the file. The "Official" FAX phone numbers for this TC 1700 are:

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When filing an "Unofficial" FAX in Group 1730, please indicate in the Header (upper right) "Unofficial" for Draft Documents and other Communications with the PTO that are not for entry into the file of the application. This will expedite processing of your papers. The "Unofficial" FAX phone number for this Art Unit (1731) is (703) 305-7115.

Any inquiry concerning this communication or earlier communications from the **primary examiner** should be directed to **Steve Alvo** whose telephone number is (703) 308-2048. The Examiner can normally be reached on Monday - Friday from 6:00 AM - 2:30 PM (EST).

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mr. Stanley Silverman, can be reached on 703-308-3837.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the **Group receptionist** whose telephone number is (703) 308-0661.

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MSA 12/27/02

STEVE ALVO
PRIMARY EXAMINER
ART UNIT 1731